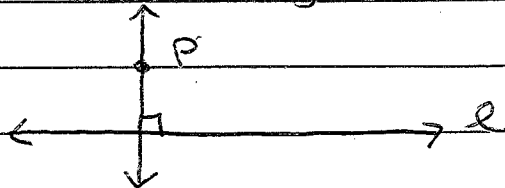


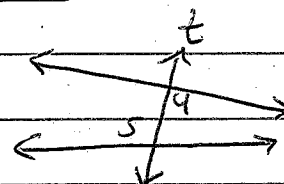
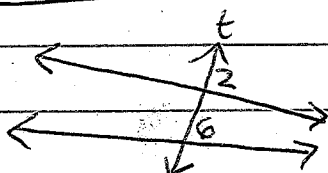
PERPENDICULAR POSTULATE

If there is a line and a point not on the line, then there is exactly one line through the point perpendicular to the given line.



Transversal: line that intersects two or more coplanar lines at different points.

ANGLES FORMED BY TRANSVERSALS

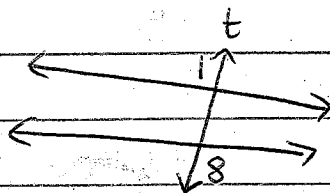


Corresponding Angles

two angles in corresponding positions

Alternate Interior Angles

two angles that lie b/w the two lines & on opposite sides of the transversal



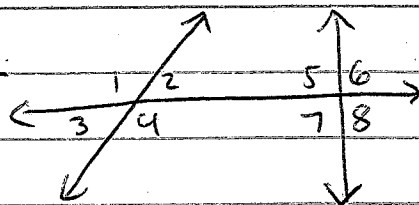
Alternate Exterior Angles

two angles that lie outside the two lines and on opposite sides of the transversal

Consecutive Interior Angles

two angles lie between the two lines and on the same side of the transversal

Ex 2



Corresponding: $\angle 1 \cong \angle 5$, $\angle 2 \cong \angle 6$, $\angle 3 \cong \angle 7$, $\angle 4 \cong \angle 8$

Alt. Interior: $\angle 2 \cong \angle 7$, $\angle 4 \cong \angle 5$

Alt. Exterior: $\angle 1 \cong \angle 8$, $\angle 3 \cong \angle 6$

Consecutive Int: $\angle 2 \cong \angle 5$, $\angle 4 \cong \angle 7$